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(54) **RESIDENTIAL BUILDING COMPLEX**

WOHNGEBÄUDEKOMPLEX

COMPLEXE DE BATIMENTS RESIDENTIELS

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Description

[0001] The present invention relates to a residential building complex.

[0002] Modern living conditions are inducing more and more people to look for a healthy life in a pleasant environment.

[0003] Problems relating to unhealthy living, both in terms of physical illnesses and existential discomfort, are becoming increasingly more evident.

[0004] Proposals are growing in all product spheres and fields of science, which are oriented towards reestablishing equilibrium between body/mind/spirit.

[0005] The awareness is also developing that many pathologies in rapid growth are associated with disastrous energy imbalances caused by human beings.

[0006] The physical damage caused by electromagneticism is now widely known.

[0007] Another widelyspread problem is so-called indoor pollution i.e. the presence, in the air of closed environments, of physical, chemical and biological contaminants, not present naturally in high-quality outdoor air. The main sources of contaminants are specifically the construction materials (in some of which the presence of radon has actually been demonstrated, such as, for example, in cement, tuffs, pozzolans, granites), paints, murals, glues and any other material introduced into the residence without considering the toxic components.

[0008] Among these radon should be mentioned. Radon is a radioactive noble gas produced by the deterioration of uranium and present in the Earth's crust. In the open air, it rapidly dilutes, whereas in closed environments it accumulates and, in some cases, can reach such concentration levels as to represent a health risk. It is sufficient to think that radon is currently considered the second cause of death due to lung cancer, after smoking. In order to reach the inside of buildings, radon is released from the ground (for example from construction materials or from water) and passes through openings, even microscopic, of floors and walls in general. The interaction between the building and site, the use of particular construction materials, the types of building constructions are therefore the most significant elements for evaluating the influence of radon on the quality of the air inside residences and buildings in general.

[0009] A variety of unhealthy living conditions often cause various degrees of disturbances, above all during rest hours when the body is sleeping and therefore lowers its immune defenses to prepare for regeneration. Studies carried out on sleep confirm that the quality of sleep, both Rem and non-Rem, is necessary for good health. Energy regeneration takes place already in the first phase of sleep; subsequently, during non-Rem sleep, there is a high production of the growth hormone which is vital for physical health; finally, in Rem sleep, the blood flow towards the brain increases and this is useful for mental health. Very often, however, various kinds of pathologies (for example: insomnia, migraine, anxiety, confusion)

arise, mainly due to invisible electromagnetic bombardment.

[0010] Buildings constructed according to widespread construction procedures are certainly not capable of solving the problems described above. Interventions can sometimes be made to correct, as much as possible, various serious situations such as, for example providing protection for electric plants, but this has a limited efficacy. Corrective solutions are often only possible by means of radical interventions which, when possible, are extremely onerous with respect to the benefit obtained.

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[0011] In view of what is specified above, the necessity is

Document US 4,141,184 describes a multi-dwelling structure in which each dwelling comprises a rear and side walls and an entrance façade, wherein the dwellings are arranged on terraces thereby not allowing visible interference with each other. evident of availing of a building complex, such as that according to the present invention, which allows the problems of the known art to be solved.

[0012] An objective of the present invention is to provide a building complex suitable for conferring maximum health conditions to the building, by providing an environment based on the human perception of the surrounding energy level.

[0013] A further objective of the present invention is therefore to provide a building complex which eliminates or in any case significantly reduces electromagnetic and sound pollution.

[0014] Another objective of the present invention is to provide a building complex which tends to eliminate or in any case reduce indoor pollution.

[0015] Finally, an additional objective of the present invention is to provide a building complex which tends to eliminate or in any case reduce radon pollution.

[0016] These and other objectives are achieved by the building complex according to the present invention which has the characteristics of the enclosed claim 1.

[0017] Other characteristics of the invention are indicated in the subsequent claims.

[0018] Further characteristics and advantages of the present invention will appear more evident from the present description, provided for illustrative and non-limiting purposes, with reference to the enclosed drawings, in which:

- figure 1 shows a schematic view from above of a building complex according to the present invention;
- figure 2 shows a schematic front view from above of a preferred embodiment of the carrying structure of the cover of a construction element for residential use according to the present invention; and
- figure 3 shows a schematic plan view of a preferred embodiment of a construction element for residential

use according to the present invention.

[0019] With reference to figure 1, this shows a building complex according to the present invention.

[0020] The building complex, according to the present invention, indicated as a whole with the numerical reference 100, is of the type containing eight construction elements 2 for residential use, situated at a relative distance which is such as to not allow visible interference with each other.

[0021] Each construction element 2 for residential use has a square plan base 3, at least one internal patio element 4, optionally substituted by an internal mezzanine floor, and at least one entrance façade 5.

[0022] Each construction element 2 for residential use comprises a series of carrying building structures 6, preferably, but not exclusively, situated along the perimeter of the construction element 2 for residential use. According to an aspect of the present invention, the entrance façade 5 of each construction element 2 is advantageously oriented in a north-west direction within the range of 292.5° to 337.5°, or a south-east direction within the range of 112.5° to 157.5°.

[0023] It has been surprisingly found that the exposure of the construction elements 2 for residential use, following a similar orientation, favours good health and prosperity, based on the human perception of the surrounding energy level of the people living there.

[0024] The complex 100 also has a territorial extension 8 within the range of 20,000 m² and 50,000 m² and each construction element for residential use 2 is built on top of portions of area free of underground water or faults.

[0025] This prevents the construction from standing on geopathogenic sources identified according to the studies of the physicist Hartman. Furthermore, the construction element 2 thus planned, prevents people from living, inside the residence, on top of one of the greatest radon conductors, i.e. water.

[0026] According to another advantageous aspect of the present invention, the territorial extension 8, free of telephone networks and electroducts, is selected in an area without rubbish dumps or industrial plants.

[0027] Each carrying building structure 6 comprises a wall made exclusively of structural alveolar bricks, thus allowing a perfect thermal-acoustic insulation to be obtained for each construction element 2, from the outside.

[0028] According to the present invention, it is therefore possible to produce carrying elements which do not necessitate, as normally envisaged by the known art, walls made of reinforced concrete.

[0029] The absence of reinforced concrete in the carrying building structure 6 allows a better transpiration of the environment, consequently increasing the quality of the air inside each construction element for residential use 2, thus allowing a real and concrete building aimed at eliminating electromagnetic pollution, indoor pollution and radon pollution.

[0030] The sole absence of the ironwork of the con-

crete reinforcement, according to the known art, eliminates the continuous passage of current therein, which raises the degree of electromagnetic pollution.

[0031] Each carrying building structure 6 is also finished with mortars or plasters selected from natural materials. In other words, the mortars for the walling and for the plasters comprise materials compatible with the environment, such as, for example, natural lime and/or gravel and/or sand and/or earth and/or clay and materials containing radon are excluded.

[0032] According to an alternative aspect of the present invention, each carrying building structure 6 can comprise portions made of wood and/or natural stone.

[0033] As far as the cover 10 of each construction element 2 for residential use, is concerned, its carrying structure 11 consists of wooden trusses.

[0034] The wooden trusses are visibly exposed directly inside each construction element 2.

[0035] In other words, each construction element 2 for residential use does not comprise a ceiling, as envisaged by the known art.

[0036] The covering surface 12 of each construction element 2 for residential use is selected from bricks and/or stone slabs.

[0037] The internal subdivision of each construction element 2 for residential use is at least partially obtained by means of partitioning, not shown, consisting of moveable panels, possibly also packable.

[0038] The flooring of each construction element 2 for residential use, on the other hand, is selected from wood and/or natural stones and/or tatamis.

[0039] According to an advantageous aspect of the present invention, the treatment and painting of the wooden parts forming the carrying structure 11 of the covering element, the flooring and/or portions of wall or partitioning are effected with natural paints or products.

[0040] In order to reduce the environmental impact of each element 2 to the minimum, it should be noted that its construction, without basement rooms, is effected by building it directly on the ground, i.e. reducing earth-moving excavations and fillings, as much as possible.

[0041] This tends to eliminate or in any case reduce the passage of radon as much as possible.

[0042] Furthermore, each construction element 2 for residential use has a limited height suitable for being perfectly integrated with the surroundings. For this reason, each construction element 2 for residential use is built on a single floor. In order to rationalize the space, it is optionally possible to envisage an internal mezzanine floor which, in this case, substitutes the patio.

[0043] In order to prevent electric pollution generated by electric currents, and at the same time providing the comfort of modern household appliances, the electric plant of each construction element 2 for residential use, is completely protected and follows specific courses suitable for excluding the major rest points of people, such as, for example, the whole perimeter of beds, including headboards, and dining tables.

[0044] The same attention is paid for the water supply and discharge plant and for the heating plant of each construction element 2 for residential use.

[0045] The centralization of the plants is situated outside, away from each construction element 2 for residential use.

[0046] In order to improve the internal healthiness of the environments, there is a centralized aspiration plant for the collection of powder which considerably reduces the presence of mites.

[0047] In order to guarantee minimum environmental impact, each building complex 100 also comprises at least one water sanification and/or recovery and/or purification and/or recycling plant.

[0048] Once the recovered and/or sanified and/or purified and/or recycled water has been treated, it will be subsequently re-used for various functions such as plant irrigation and/or the feeding of any possible internal ponds and/or internal fountains and/or for household use.

[0049] It has been decided to base the construction of these building complexes on the traditional Chinese teachings of Xuan Kong Feng Shui, integrating and combining them in a new and original manner, with what is offered by modern technology. A building complex is thus obtained in which it is possible to enjoy the comfort of a modern home, immersed in and surrounded by nature, all with the maximum respect for energy and environmental equilibrium, in a new refined and harmonious living reality.

[0050] According to the present invention, all human beings, when inserted in an environment in which the surrounding positive energy conditions are in equilibrium with their own subtle reality, can progressively reestablish a state of well-being and the renewed equilibrium easily facilitates the evolutionary process of the mind/body/spirit, with a consequent improvement in the quality of life (for example: they sleep better; the harmful effects of food excess is attenuated).

[0051] The present invention is described for illustrative but non-limiting purposes, according to its preferred embodiments but variations and/or modifications can obviously be applied by experts in the field, all included within the relative protection scope, as defined by the enclosed claims.

Claims

1. A residential building complex (100) containing eight construction elements (2) for residential use, situated at a relative distance which is such as to not allow visible interference with each other; each construction element (2) for residential use has a square plan base (3) and at least one entrance façade (5), **characterized in that** each construction element (2) for residential use comprises a series of carrying building structures (6), situated along the perimeter of said construction element (2) for residential use, and

in that said entrance façade (5) is oriented in a north-west direction within the range of 292.5° to 337.5°, or in a south-east direction within the range of 112.5° to 157.5°; said complex (100) comprising a territorial extension (8), within the range of 20,000 square metres to 50,000 square metres, free of telephone network and electroducts.

2. The building complex (100) according to claim 1, **characterized in that** each carrying building structure (6) comprises a wall exclusively made of alveolar bricks for the thermal-acoustic insulation of said construction element (2).
3. The building complex (100) according to claim 1, **characterized in that** each construction element (2) for residential use comprises at least one internal patio element (4).
4. The building complex (100) according to claim 1, **characterized in that** each construction element (2) for residential use comprises at least one internal mezzanine floor.
5. The building complex (100) according to claim 1 or 2, **characterized in that** each carrying building structure (6) comprises portions made of wood and/or natural stone.
6. The building complex (100) according to any of the previous claims, **characterized in that** each construction element (2) for residential use comprises at least one completely protected electric plant which follows specific courses suitable for excluding the major rest points of people.
7. The building complex (100) according to any of the previous claims, **characterized in that** each construction element (2) for residential use comprises a cover (10) equipped with a carrying structure (11) and a covering surface (12).
8. The building complex (100) according to claim 6, **characterized in that** said carrying structure (11) consists of wooden trusses.
9. The building complex (100) according to claims 7 and 8, **characterized in that** the covering surface (12) is selected from bricks and/or stone slabs.
10. The building complex (100) according to any of the previous claims, **characterized in that** it comprises at least one water recovery and/or sanification and/or purification and/or recycling plant.

Patentansprüche

1. Wohngebäudekomplex (100), umfassend acht Bauwerke (2) für Wohnzwecke, die mit einem relativen Abstand angeordnet sind, der derart ist, dass keine gegenseitige Beeinträchtigung der Sicht möglich ist, wobei jedes Bauwerk (2) für Wohnzwecke einen quadratischen Grundriss (3) und mindestens eine Eingangsfassade (5) aufweist, **dadurch gekennzeichnet, dass** jedes Bauwerk (2) für Wohnzwecke eine Reihe von tragenden Gebäudestrukturen (6) umfasst, die längs des Umfangs dieses Bauwerks (2) für Wohnzwecke angeordnet sind, und **dadurch**, dass die Eingangsfassade (5) in einem Bereich von 292,5° bis 337,5° in einer nordwestlichen Richtung oder in einem Bereich von 112,5° bis 157,5° in einer südöstlichen Richtung ausgerichtet ist, wobei dieser Komplex (100) eine geländemäßige Ausdehnung (8) in einem Bereich von 20.000 Quadratmetern bis 50.000 Quadratmetern ohne Telefonnetz und Hochspannungsleitungen umfasst.
2. Gebäudekomplex (100) nach Anspruch 1, **dadurch gekennzeichnet, dass** jede tragende Gebäudestruktur (6) eine Wand umfasst, die ausschließlich aus Wabenziegeln für die Wärme- und Schalldämmung des Bauwerks (2) besteht.
3. Gebäudekomplex (100) nach Anspruch 1, **dadurch gekennzeichnet, dass** jedes Bauwerk (2) für Wohnzwecke mindestens ein Innenhofelement (4) umfasst.
4. Gebäudekomplex (100) nach Anspruch 1, **dadurch gekennzeichnet, dass** jedes Bauwerk (2) für Wohnzwecke mindestens ein internes Zwischengeschoss umfasst.
5. Gebäudekomplex (100) nach Anspruch 1 oder 2, **dadurch gekennzeichnet, dass** jede tragende Gebäudestruktur (6) Teile umfasst, die aus Holz und/oder Naturstein bestehen.
6. Gebäudekomplex (100) nach irgendeinem der vorherigen Ansprüche, **dadurch gekennzeichnet, dass** jedes Bauwerk (2) für Wohnzwecke mindestens eine vollständig geschützte elektrische Anlage umfasst, die spezifischen Verläufen folgt, die geeignet sind, die hauptsächlichen Aufenthaltsorte der Personen auszuklammern.
7. Gebäudekomplex (100) nach irgendeinem der vorherigen Ansprüche, **dadurch gekennzeichnet, dass** jedes Bauwerk (2) für Wohnzwecke eine Abdeckung (10) umfasst, die mit einem Tragwerk (11) und einer Deckfläche (12) versehen ist.
8. Gebäudekomplex (100) nach Anspruch 6, **dadurch**

gekennzeichnet, dass dieses Tragwerk (11) aus Holzbindern besteht.

9. Gebäudekomplex (100) nach Anspruch 7 und 8, **dadurch gekennzeichnet, dass** die Deckfläche (12) aus Ziegeln und/oder Steinplatten ausgewählt ist.
10. Gebäudekomplex (100) nach irgendeinem der vorherigen Ansprüche, **dadurch gekennzeichnet, dass** er mindestens eine Anlage zur Rückgewinnung und/oder Desinfektion und/oder Klärung und/oder Wiederaufbereitung des Wassers umfasst.

Revendications

1. Complexe de bâtiments résidentiels (100) contenant huit éléments de bâtiment (2) à usage résidentiel, situés à une distance relative qui est telle qu'elle ne permette pas une interférence visuelle entre eux ; chaque élément de bâtiment (2) à usage résidentiel a une base plane carrée (3) et au moins une façade d'entrée (5), **caractérisé en ce que** chaque élément de bâtiment (2) à usage résidentiel comprend une série de structures portantes de construction (6), situées le long du périmètre dudit élément de bâtiment (2) à usage résidentiel, et **en ce que** ladite façade d'entrée (5) est orientée dans une direction nord-ouest dans la plage de 292,5° à 337,5° ou dans une direction sud-est dans la plage de 112,5° à 157,5° ; ledit complexe (100) comprenant une extension territoriale (8), dans la plage de 20.000 mètres carrés à 50.000 mètres carrés, dépourvue de réseau téléphonique ou de conduits électriques.
2. Complexe de bâtiments (100) selon la revendication 1, **caractérisé en ce que** chaque structure portante de construction (6) comprend une paroi constituée exclusivement de briques alvéolaires pour l'isolation thermo-acoustique dudit élément de bâtiment (2).
3. Complexe de bâtiments (100) selon la revendication 1, **caractérisé en ce que** chaque élément de bâtiment (2) à usage résidentiel comprend au moins un élément de patio interne (4).
4. Complexe de bâtiments (100) selon la revendication 1, **caractérisé en ce que** chaque élément de bâtiment (2) à usage résidentiel comprend au moins un mezzanine interne.
5. Complexe de bâtiments (100) selon la revendication 1 ou 2, **caractérisé en ce que** chaque structure portante de construction (6) comprend des portions constituées de bois et/ou de pierres naturelles.
6. Complexe de bâtiments (100) selon l'une quelconque des revendications précédentes, **caractérisé**

en ce que chaque élément de bâtiment (2) à usage résidentiel comprend au moins une installation électrique complètement protégée qui suit des parcours spécifiques pour exclure les principaux points de repos des personnes.

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7. Complexe de bâtiments (100) selon l'une quelconque des revendications précédentes, **caractérisé en ce que** chaque élément de bâtiment (2) à usage résidentiel comprend une couverture (10) équipée d'une structure portante (11) et d'une surface de couverture (12). 10
8. Complexe de bâtiments (100) selon la revendication 6, **caractérisé en ce que** ladite structure portante (11) se compose de poutres en bois. 15
9. Complexe de bâtiments (100) selon les revendications 7 et 8, **caractérisé en ce que** la surface de couverture (12) est sélectionnée parmi des briques et/ou des dalles en pierre. 20
10. Complexe de bâtiments (100) selon l'une quelconque des revendications précédentes, **caractérisé en ce qu'il** comprend au moins une installation de récupération et/ou d'assainissement et/ou de clarification et/ou de recyclage des eaux. 25

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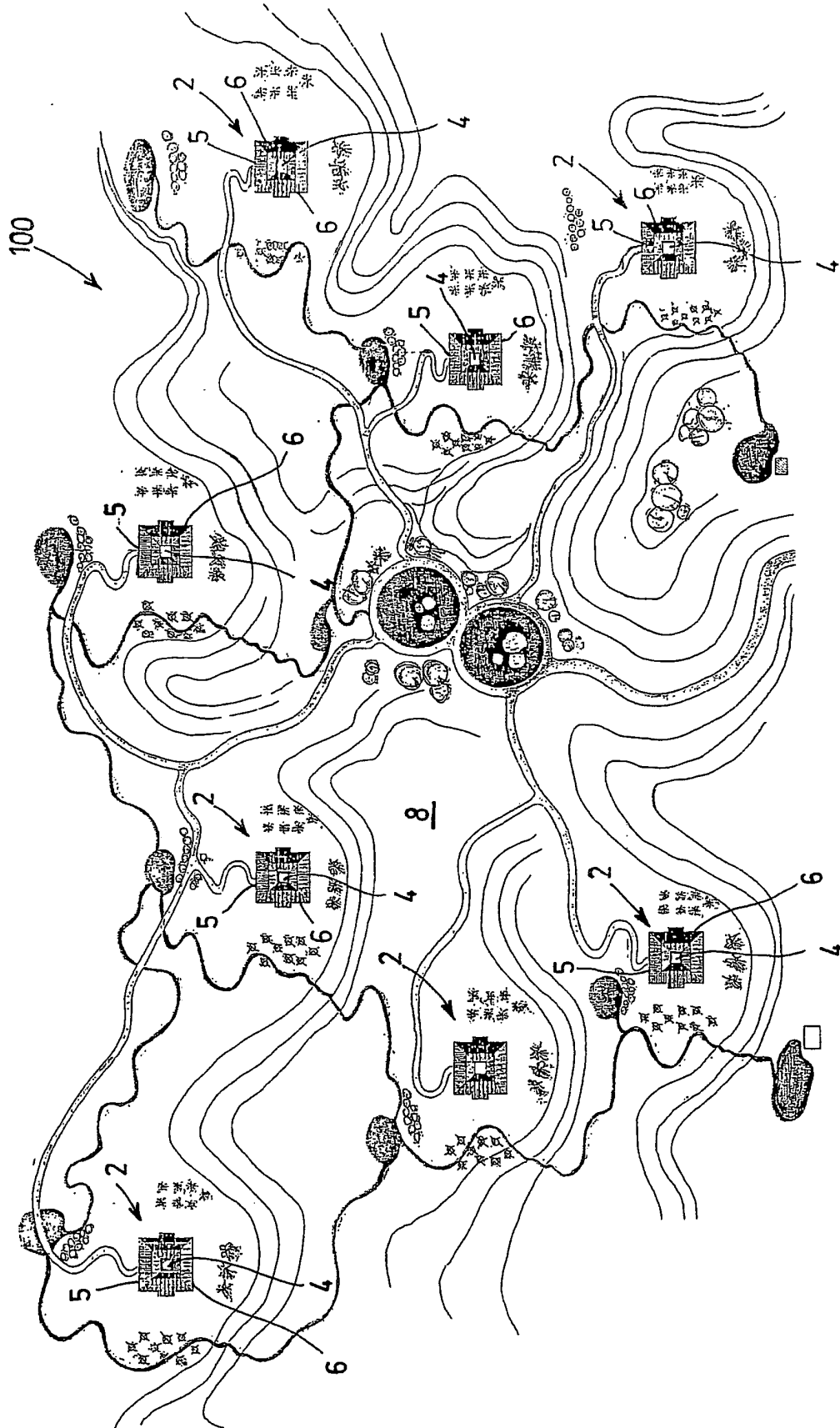
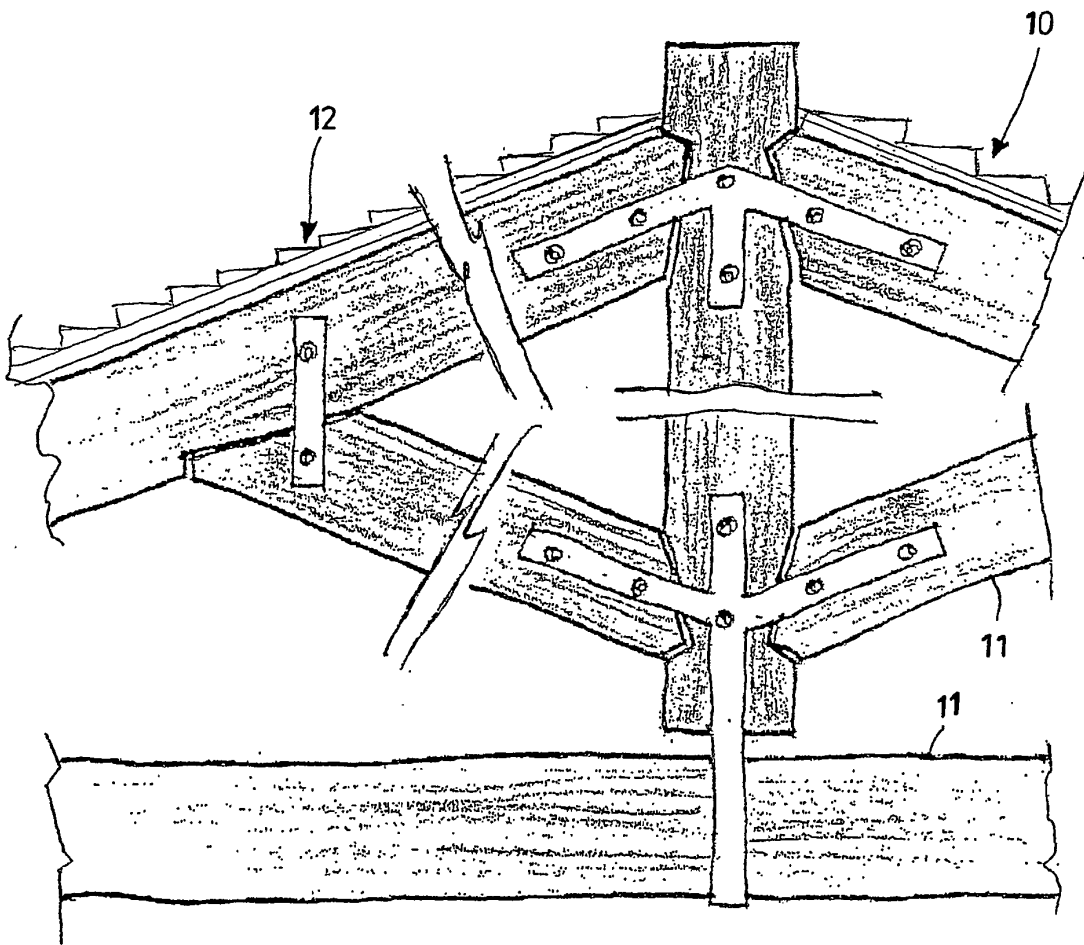
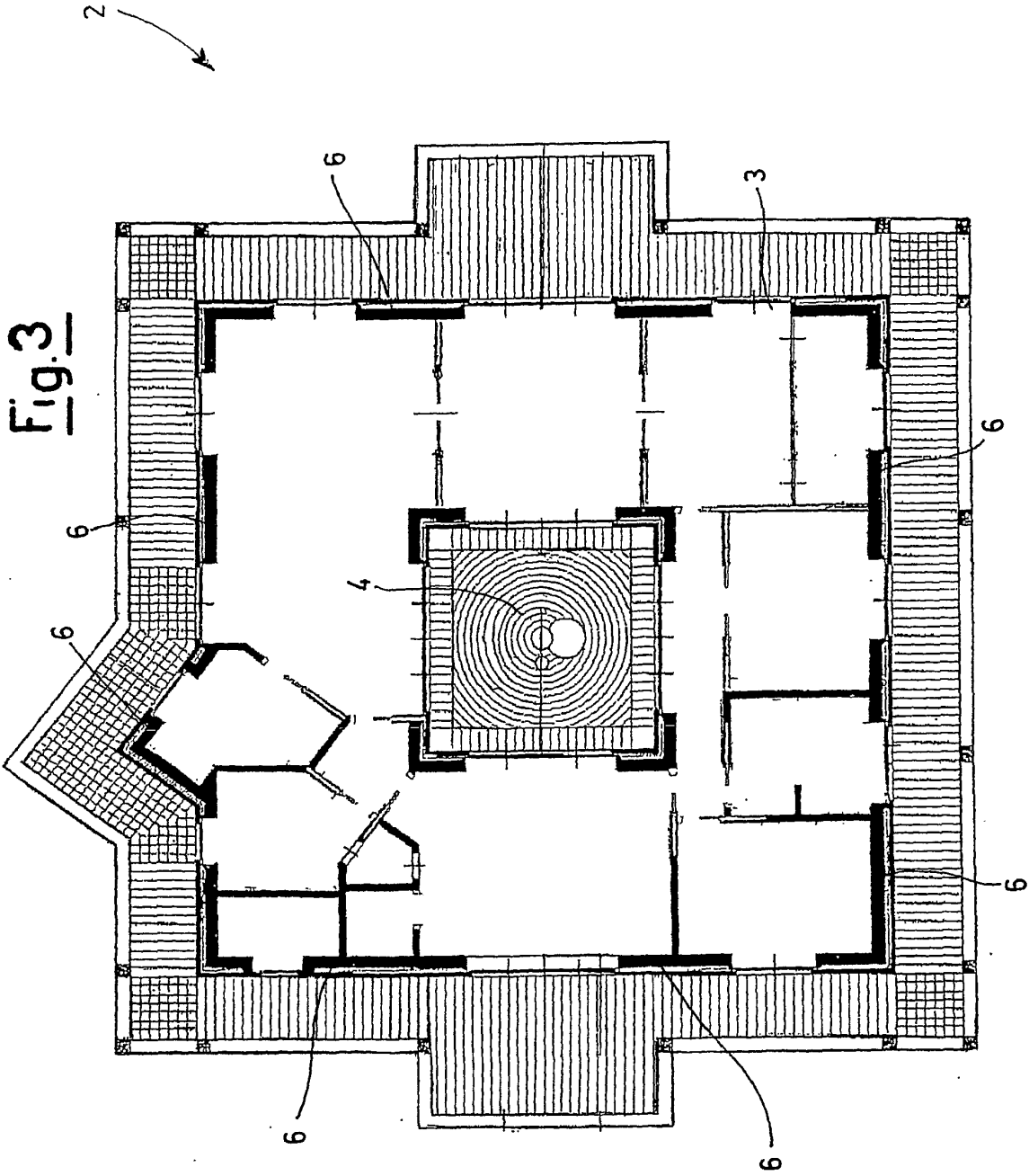


Fig. 1

Fig.2





REFERENCES CITED IN THE DESCRIPTION

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